18502

SOUNDINGS IN FEET

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Charting and Geodetic Services (N/CG22), National Ocean Service, NOAA, Rockville, Maryland 20852.

Formerly C&GS 6150, 14th Ed., June 1982. C 1943 576

Nautical Chart Catalog No. 2. Panels: F, G

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable but for most stations is usually 20 to 40 miles from the antenna site.

Astoria, OR	KEC-91	162.40 MHz
Olympia, WA	WXM-82	162.475 MHz

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, WA, or at the Office of the District Engineer, Corps of Engineers in Seattle, WA.

Refer to charted regulation section number.

CAUTION

For bascule bridges, whose spans do not open to a full vertical position, unlimited overhead clearance is not available for the entire charted horizontal clearance when the bridge is open due to the inclinations of the drawspans over the channel.

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus: ⊙(Accurate location) ⊙(Approximate location)

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CONTINUATION OF CHEHALIS RIVER

Scale 1:40,000

WISHKAH RIVER BRIDGES

The two swing bridges and one bascule bridge crossing the Wishkah River have a horizontal clearance of 75 feet and a vertical clearance of 8 feet. The fixed bridge has a horizontal clearance of 75 feet and a vertical clearance of 10 feet.

CAUTION
Bar Channel

The bar channel is subject to frequent changes. Deep draft vessels should not enter without knowledge of conditions at the time of entering. The deepest water is not always on the range.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Notice to Mariners.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

HEIGHTS

Heights in feet above Mean High Water

AUTHORITIES

Hydrography and topography by the National Ocean Service, Charting and Geodesic Services with additional data from the Corps of Engineers and U.S. Coast Guard.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

PLANE COORDINATE GRID

The Washington State plane coordinate grid, South Zone, (based on NAD 1927) is indicated on this chart by dashed ticks at 10,000 foot intervals. The last three digits are omitted. The Corps of Engineers radio plane coordinate grid is shown by dotted ticks at 10,000 foot intervals. The origin is East Base, 1909.

Both grids are shown on the Westhaven Cove inset at 2,000 foot intervals.

LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any units) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed of units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots.

UNITED STATES - WEST COAST
WASHINGTON

GRAYS HARBOR

Mercator Projection
Scale 1:10,000 at Lat. 46°56'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

Place	Height referred to datum of soundings (M.L.L.W.)			
Name	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
Point Chehalis	+8.7(9.1)	+8.3	+0.4	-1.0
River mouth	+8.7(9.1)	+8.3	+0.4	-1.0
Montesano, Chehalis River	+6.7(7.1)	+6.3	+0.4	-1.0

AIDS

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1)

Aids to navigation lights are white unless otherwise indicated.

Abbr. Abbreviations	G green	Mo Morse code	R red
Al alternating	Gp group	N nun	Ra radar
Bn beacon	H# HARLAND buoy	OBSC obscured	W white
C can	Hr hour	Oc occulting	WR white-red
Dia diaphone	LT HO lighthouse	Or orange	Y yellow
F fixed (steady light)	M nautical mile	P pillar	
F. fixed	MICRO TR microwave tower	Pr prior (also: entrance)	
Fl flashing	Min minute	R Ran (obsolete)	

Bottom characteristics

Bld boulders	Co coral	gr gray	Sgle sandy	Wd wood
br brown	Cy clay	h hard	Sh shells	wh white
Cbl cobble	Gn green	M mud	S sand	Wy wavy

Miscellaneous

Ach anchorage	Obstr obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	
Ex Rock rock, elevation or least depth known to the depth indicated			
PD Rocks that cover and uncover, with heights, in feet above datum of soundings			
COLREGS International Regulations for Preventing Collisions at Sea, 1972			

Geographical limits are shown thus:

WESTHAVEN COVE

Scale 1:10,000

Yards

80th Ed., Sept. 8/90 ■
18502

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

SOUNDINGS IN FEET

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